2) $R = 2\ mm$ $\underline{A = \pi R^2 = 12.5664\ mm^2}$ (DETERMINISTIČNO)

$E[R] = 1.999\ mm$ $A = g(R) = \pi R^2$

$V_R = 0.05$

$E[A] = E[g(R)] = E[\pi R^2] = \pi E[R^2]$

$var[R] = E[R^2] - E[R]^2 \Rightarrow E[R^2] = var[R] + E[R]^2$

$var[R] = V_R^2 \cdot E[R]^2$

$E[A] = \pi \left(V_R^2 E[R]^2 + E[R]^2 \right) = \pi E[R]^2 (V_R^2 + 1)$

$\underline{E[A] = 12.5852}$

ZANIMIVO, DA JE $E[A] > A_{deter.}$, KLJUB TEMU, DA JE $E[R] < R_{deter.}$

PROIZVAJALEC NAREJ PORABI NEKOLIKO VEČ MATERIALA.